

METHOD FOR MANUFACTURING PAPER  
AND PAPERBOARD USING  
FRACTURE TOUGHNESS MEASUREMENT

## ABSTRACT OF THE DISCLOSURE

A mathematical model is used to design paper and paperboard having improved runnability. The mathematical model provides an estimate of fracture toughness for an optimized paper product based on specific measurement parameters, e.g., filler percent, softwood content and caliper for optimal fracture toughness. After the optimizing set of measurement parameters has been acquired, these parameters can be used to manufacture grades of paper having improved runnability performance, e.g., in printing presses.